PHIRI

Population Health Information Research Infrastructure

PHIRI WORKFLOW FOR FEDERATED RESEARCH

CONCEPTION

See the PHIRI use cases data model:

The PHIRI federated research workflow have been piloted in four use cases, measuring the impact of COVID-19 on:

differential exposure of vulnerable population to healthcare
(USE CASE A)

delayed care in breast cancer patients
(USE CASE B)

changes in perinatal health indicators
(USE CASE C)

effects on mental health services utilisation
(USE CASE D)

1 Research question
Formalising the research ruestion

2 Common Data Model
Iteratively building a Common Data Model specification with the contribution of all participants in each research question

IMPLEMENTATION

See more about the prototype of the PHIRI federated research infrastructure:

doi.org/10.5281/zenodo.5729310

3 Synthetic dataset
Generating a synthetic dataset following the specifications of the agreed common data model

4 Data Quality Checks
Iteratively developing and testing the scripts (code) implementing the Data Quality Analysis using the synthetic data set

5 Analytical workflow
Iteratively developing and testing the scripts (code) of the statistical analysis using the synthetic data set

6 Docker deployment
Secure processing App containing the whole analytical pipeline is deployed in the participant nodest

EXECUTION

See more about the Execution:

www.phiri.eu/wp6

See the PHIRI cases study report:

7 Local analyses and meta-analyses
Running the App participants will get local results shared for comparison

8 Publication
Analytical Pipeline, App and Results are published in Open Science repositories

European **Health Information** Portal

DO IT YOURSELF

Discover the PHIRI demonstrator on the European Health Information Portal, and participate in one the PHIRI research use-case. You will be able to run your analyses locally using the PHIRI methodology and compare your results with those in the other countries.

www.phiri.eu